

FIG. 1

1 ATGGCCGCTCGGGCGGTGCTGAACGCCGCCGGCGCGGAGACGGTCGGCGAGACACGGT
 1▶ MetAlaAlaArgGlyGlyAlaGluArgAlaAlaGlyAlaGlyAspGlyArgArgGlyGlnArg
 64 CGTCATCTACGACCGGACGTGTTCTCGCTCTACCGCGGTCTGCCAGCGCTGCGCGCGGC
 22▶ ArgHisLeuArgProGlyArgValIleuAlaAlaLeuArgGlyProAlaAlaProGlyAlaGly
 127 GGGCGCGCGCGCTAGCCGCTGCCCTGCTATGGCGACGTGGGCCCTGCTGCTGCGCGCG
 43▶ GlyAlaArgAlaAlaLeuAlaAlaLeuLeuThrAlaThrTrpAlaLeuLeuAlaAla
 190 CCGCGCGCGCGGACCGGCGACAACGCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG
 64▶ ProAlaAlaGlyArgProAlaThrThrProAlaProProProGluAlaAlaSerPro
 253 GCGCGCGCGCGAGCCCCAGCCCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG
 85▶ AlaProProAlaSerProSerProProGlyProAspGlyAspAlaAlaSerProAspAsn
 316 AGCACAGACGTGCGCGCGCGCTCGGCTCGCGCGCGCGCGCGCGCGCGCGCGCGCTTCTTC
 106▶ SerThrAspValArgAlaAlaLeuArgLeuAlaGlnAlaAlaGlyGluAsnSerArgPhePhe
 379 GTGTGCCCG
 127▶ ValCysProProProSerGlyAlaThrValValArgLeuAlaProAlaArgProCysProGlu
 442 TACGGGCTCGGGCGGAACACACGAGGGCATCGGCGTCAATTACAGGAGAACATCGGCGCG
 148▶ TyrGlyLeuGlyArgAsnTyrThrGluGlyIleGlyValIleTyrLysGluAsnIleAlaPro
 505 TACACGTTCAAGGCCACATTTACAAAACGTGATCGTGACCAACGACCTGGGCGGCGAGCAG
 169▶ TyrThrPheLysAlaTyrIleTyrLysAsnValIleValThrThrThrTrpAlaGlySerThr

FIG. 2A

568 TACGGGGCCATTACAAACAGTACACGACCGCGTGCCTGGCATGGCGGAGATCACGGAC
 190 ▶ TyzAlaAlaIleThrAsnGlnTyrThrAspArgValProValGlyMetGlyGluIleThrAsp
 631 CTGGTGGACAAGAAGTGGCGCTGCCTTTCGAAGCCGAGTACCTGCGCAGCGGGCGCAAGGTG
 211 ▶ LeuValAspLysLysTyrArgCysLeuSerLysAlaGluTyrLeuArgSerGlyArgLysVal
 694 GTGGCCTTGTACCGGACGACGCCCTGGGAGCGCGCTGAAGCCTGCGCGCTGAGCGCG
 232 ▶ ValAlaPheAspArgAspAspProTyrPgluAlaProLeuLysProAlaArgLeuSerAla
 757 CCCGGGTGCGGGCTGGCCACACGACGACGATGTGTACACGCGCTGGCTCGCGGGGCTC
 253 ▶ ProGlyValArgGlyTyrPHisThrThrAspValTyrThrAlaLeuGlySerAlaGlyLeu
 820 TACCGCACGGGCACCTCTGTGAAC TGCACTCGTGAAGAGTGGAGCGCGCTCGGTGTACCCG
 274 ▶ TyzArgThrGlyThrSerValAsnCysIleValGluGluValGluAlaArgSerValTyrPro
 883 TACGACTCGTTCGGCTCTCGACCGGGACATTATCTACATGTGCGCCCTTTTACGGGCTCGCG
 295 ▶ TyzAspSerPheAlaLeuSerThrGlyAspIleIleTyrMetSerProPheTyrGlyLeuArg
 946 GAGGGCGGCACCGGAGCACACAGGCTACTCGCGGAGCGCTTCCAGCAGATCGAGGGCTA
 316 ▶ GluGlyAlaHisArgGluHisThrArgLeuLeuAlaGlyAlaLeuProAlaAspArgGlyLeu
 1009 CTACAAGCGCGACATGGCCACGGGCGCGCTCAAGGAGCGGTCTCGCGGAAC TTTTTCGG
 337 ▶ LeuGlnAlaArgHisGlyHisGlyProAlaProGlnGlyAlaGlyLeuAlaGluLeuPheAla
 1072 TACACACGACGTGACGGTAGCCTGGGACTGGGTGCCCAAGCGCAAAAACGTGTGCTCGCTGGC
 358 ▶ TyrThrAlaArgAspGlySerLeuGlyLeuGlyAlaGlnAlaGlnLysArgValLeuAlaGly

FIG. 2B

1135 CAAGTGGCGGAGCGGACGAAATGCTGCGAGACGAGCGCGGAACTTCCGCTTCACGGC
 379 GlnValAlaArgGlyGlyArgAsnAlaAlaArgArgGluProArgGluLeuProLeuHisGly
 1198 CCGCTCGCTCTCGCGACCTTTGTGAGCCAGCCACACCTTCGCGTTGCAGAAATGTCCGCT
 400 ProLeuAlaLeuGlyAspLeuCysGluArgGlnProHisLeuArgValAlaGluCysAlaAla
 1261 GAGCGACTGCGTGATCGAAGAGCGCGAGCGCGGTGCGAGCGGTCTACCGGAGCGCTACAA
 421 GluArgLeuArgAspArgArgGlyArgGlyArgGlyArgAlaArgLeuProArgAlaLeuGln
 1324 CGCACGCACGTGCTGTCGGGCAGCTTGGAGACGTACCTGGCGCGCGGCTTTGTGCTGGC
 442 ArgHisAlaArgAlaValGlyGlnLeuGlyAspValProGlyAlaArgArgLeuCysArgGly
 1387 CTTCCGGCGATGCTACGAACGAGCTGGCCAAAGCTGTACCTGCAGAGCTGGCGCGCTCGAAC
 463 LeuProAlaMetLeuSerAsnGluLeuAlaLysLeuTyrLeuGlnGluLeuAlaArgSerAsn
 1450 GGCACGCTCGAGGGGCTGTTCCGCGCGCGCGCCCAAGCCGGCCCCCGCGCGCGCGCGC
 484 GlyThrLeuGluGlyLeuPheAlaAlaAlaAlaProLysProGlyProArgArgAlaArgArg
 1513 GCGCGCGCGTCTGC
 505 AlaAlaProSerAlaProGlyGlyProGlyAlaAlaAsnGlyProAlaGlyAspGlyAspAla
 1576 GCGCGCGCGGTGACTACCGTGAGCTCGGCCGAGTTTCCGGCGGTGAGTTCACCTACGACCAC
 526 GlyGlyArgValThrThrValSerSerAlaGluPheAlaAlaLeuGlnPheThrTyrAspHis
 1639 ATCCAGGACCACGTGAACACCATGTTTCAGCCGCTGGCCACGTCTGGTGGCTGTCAGAAC
 547 IleGlnAspHisValAsnThrMetPheSerArgLeuAlaThrSerTrpCysLeuLeuGlnAsn

FIG. 2C

1702 AAGAGCGCGCCCTGTGGCGGAGCGGCTAAGCTCAACCCAGCGCGCGCGCGCTGCG
 568 ▶ LysGluArgAlaLeuTTPAlaGluAlaLysLeuAsnProSerAlaAlaSerAlaAla
 1765 CTGGACCGCGCGCGCGCATGTTGGGAGCGCCATGGCCGTACGTACTGCCACGAG
 589 ▶ LeuAspArgAlaAlaAlaArgMetLeuGlyAspAlaMetAlaValThrTyrCysHisGlu
 1828 CTGGCGAGGGCGGTTCATCGAGAACTCGATGCGCGCGCGCGCGTTCGTACAGC
 610 ▶ LeuGlyGluGlyArgValPheIleGluAsnSerMetArgAlaProGlyGlyValCysTyrSer
 1891 CGCCCGCGGTCTCCTTTGCCCTTCGGCAACGAGAGCGCGGTGGAGGCGCCAGCTCGCGGAG
 631 ▶ ArgProProValSerPheAlaPheGlyAsnGluSerGluProValGluGlyGlnLeuGlyGlu
 1954 GACAACGAGCTGCTGCCGGCGCGAGCTCGTGGAGCCCTGCACCGCCAAACCACAGCGCTAC
 652 ▶ AspAsnGluLeuLeuProGlyArgGluLeuValGluProCysThrAlaAsnHisLysArgTyr
 2017 TTCCGCTTTGGCGGAGTACGTGTACTACGAGAACTACGCGTACGTGCGGGTCCCGCTC
 673 ▶ PheArgPheGlyAlaAspTyrValTyrTyrGluAsnTyrAlaTyrValArgArgValProLeu
 2080 GCGAGCTGGAGGTGATCAGCACCTTTGTGACCTAAACCTCACGGTTCTGGAGGACCGGAG
 694 ▶ AlaGluLeuGluValIleSerThrPheValAspLeuAsnLeuThrValLeuGluAspArgGlu
 2143 TTCTTGCCGCTAGAGTGTACACGCGCGCGAGCTCGCGGACACGGGTCTGCTCGACTACAGC
 715 ▶ PheLeuProLeuGluValTyrThrArgAlaGluLeuAlaAspThrGlyLeuLeuAspTyrSer
 2206 GAGATACAGCGCGCAACCAGCTGCACGAGCTCCGGTTCTACGACATTGACCGCGTGGTCAAG
 736 ▶ GluIleGlnArgArgAsnGlnLeuHisGluLeuArgPheTyrAspIleAspArgValValLys

FIG. 2D

208220-0155001

2269 ACGACGGCAATATGGCCATCATGCGAGGCTGCCAACTTCTTTCAGGGCCTGGGCGCGCTC
 757▶ ThrAspGlyAsnMetAlaIleMetArgGlyLeuAlaAsnPhePheGlnGlyLeuGlyAlaVal

 2332 GGGACGGCGTGCGACGGTGGTGCTGGGCGCGCGGTGCGCGCTCTCGACCGTGTCGGGC
 778▶ GlyGlnAlaValGlyThrValValLeuGlyAlaAlaGlyAlaAlaLeuSerThrValSerGly

 2395 ATCGCCTCGTTTATTGCGAACCCGTTTCGGCGCTGCGCACGGGCTGCTGGTGCTCGCCGGG
 799▶ IleAlaSerPheIleAlaAsnPropheGlyAlaLeuAlaThrGlyLeuLeuValLeuAlaGly

 2458 CTGGTGGCCGCTTTCTGCGTACCGGTACATTTCGCCCTCCGCAGCAACCCCATGAAGCG
 820▶ LeuValAlaAlaPheLeuAlaTyrArgTyrIleSerArgLeuArgSerAsnProMetLysAla

 2521 CTGTACCCGATCACACGCGCGCTCAAGGACGACGCCCGGGCGCAACCGCCCGCGGAG
 841▶ LeuTyrProIleThrThrArgAlaLeuLysAspAlaArgGlyAlaThrAlaProGlyGlu

 2584 GAAGAGGAGGAGTTTGACGGGCCAACTGGAGCAGGCCCGCGAGATGATCAAGTATATGTCG
 862▶ GluGluGluGluPheAspAlaAlaLysLeuGluGlnAlaArgGluMetIleLysTyrMetSer

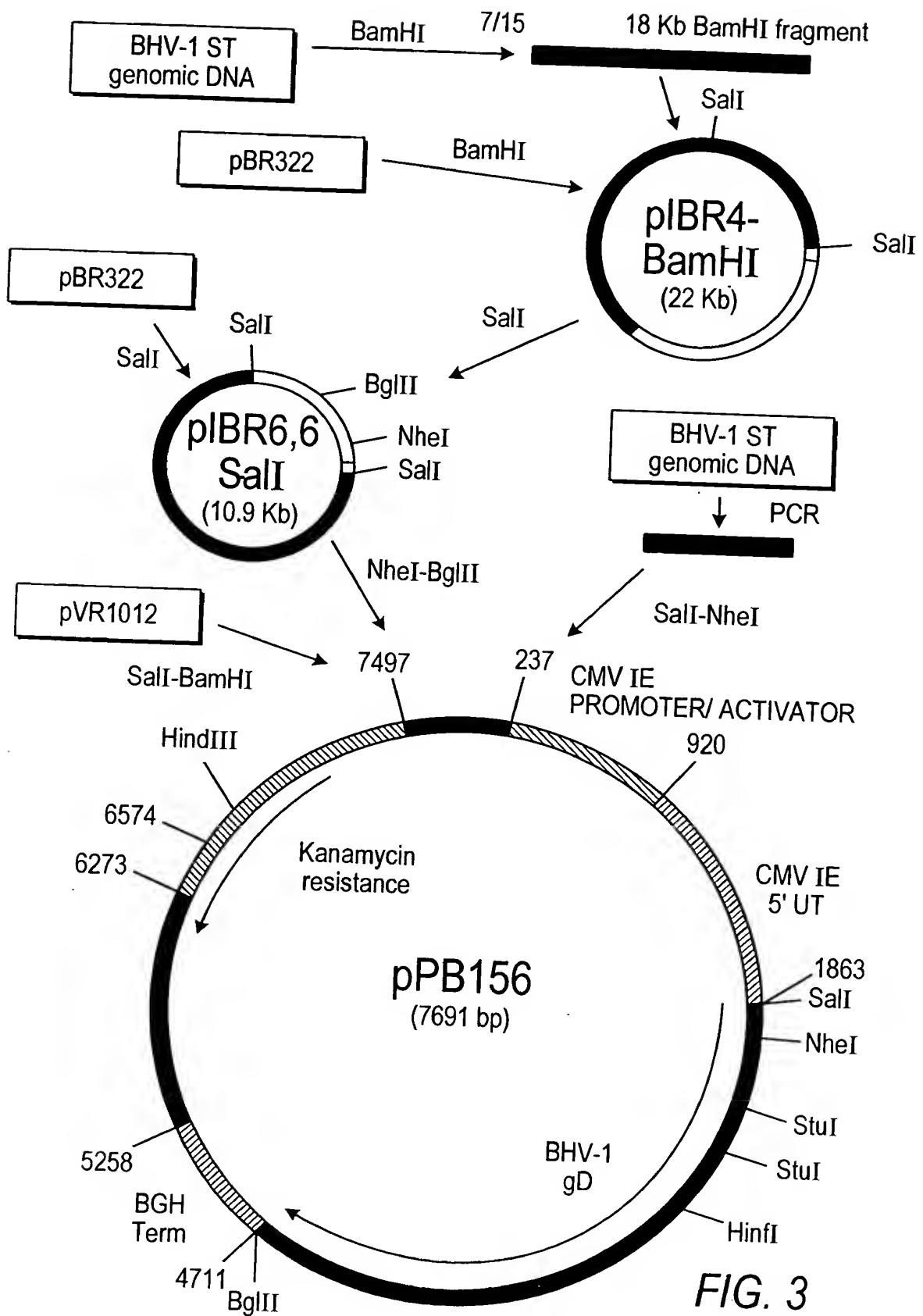
 2647 CTCGTGTACGGTCGAGCGGCAAGAGCACAAAGCGAAAGAGCAACAAGGGCGGCCGCTG
 883▶ LeuValSerAlaValGluArgGlnGluHisLysAlaLysLysSerAsnLysGlyGlyProLeu

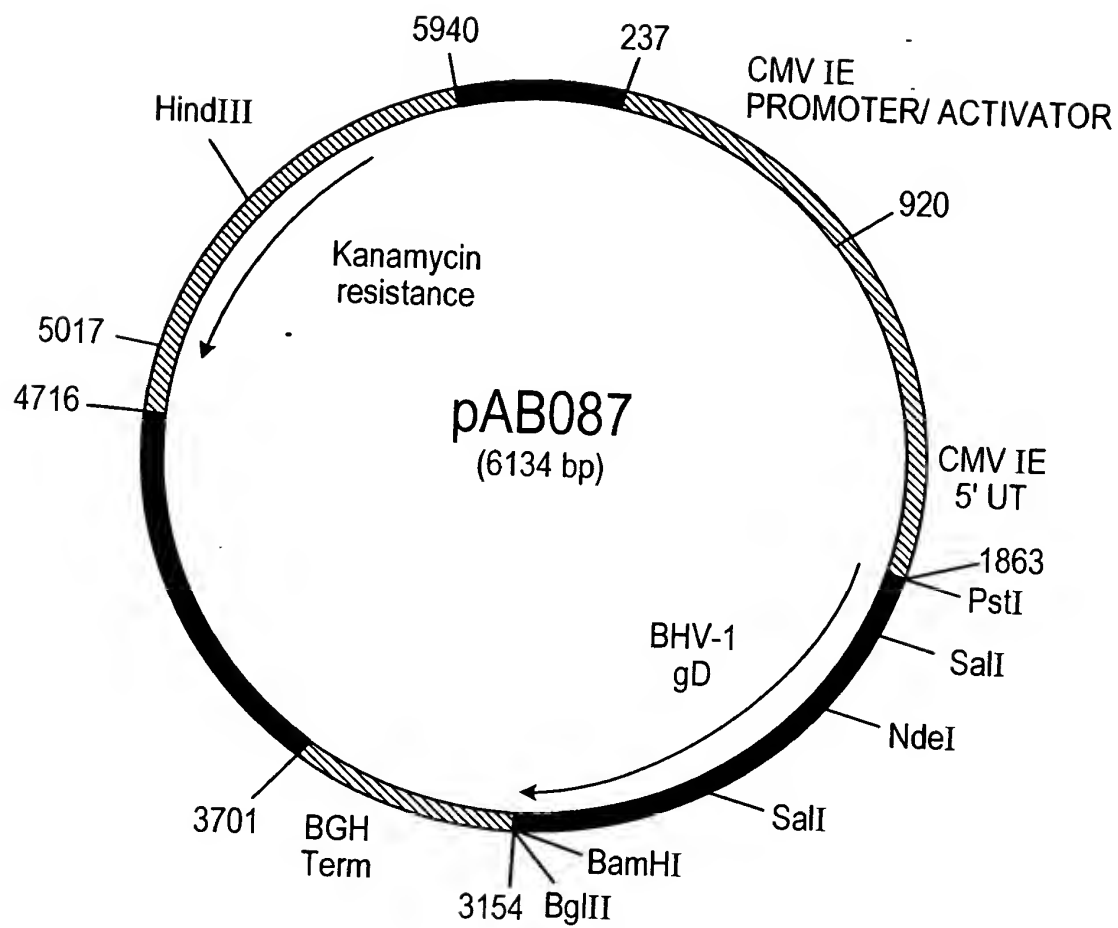
 2710 CTGGCGACCCGGCTGACCGAGCTCGCGCTTCGGCGGAGCGCGCGGAGTACCAGCAGCTT
 904▶ LeuAlaThrArgLeuThrGlnLeuAlaLeuArgArgAlaProProGluTyrGlnGlnLeu

 2773 CCGATGCGCGACGTCGGGGGGCATGA
 925▶ ProMetAlaAspValGlyGlyAla...

FIG. 2E

10085519.02200
2008220.6T58001



**FIG. 4**

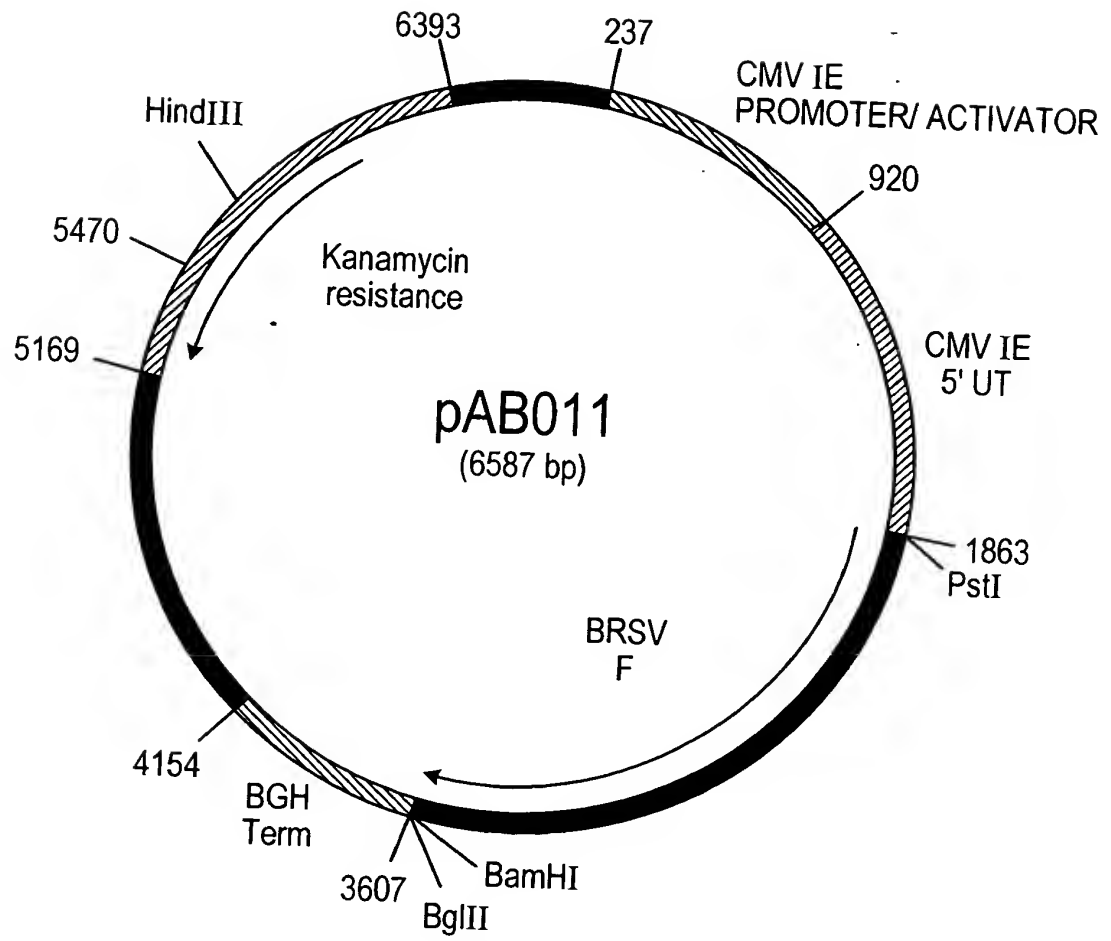
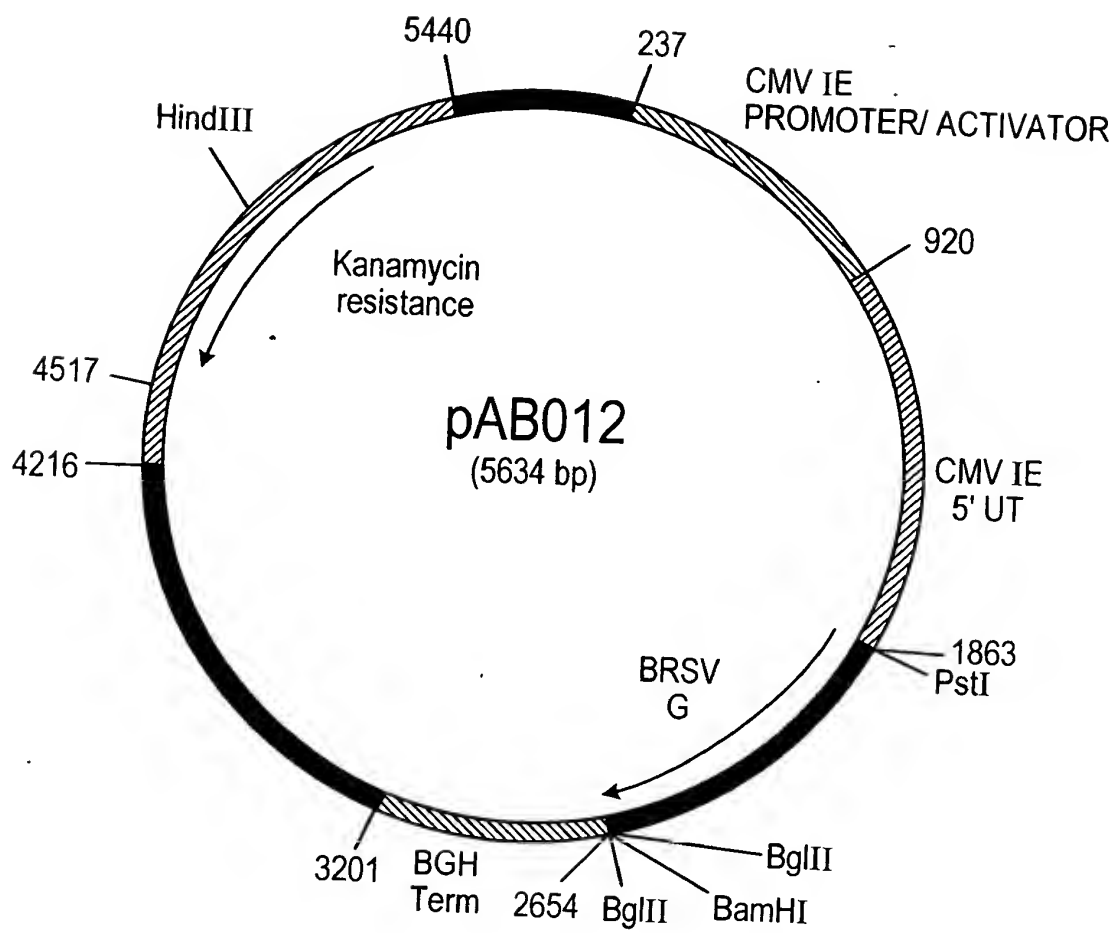


FIG. 5

10085519.022802

**FIG. 6**

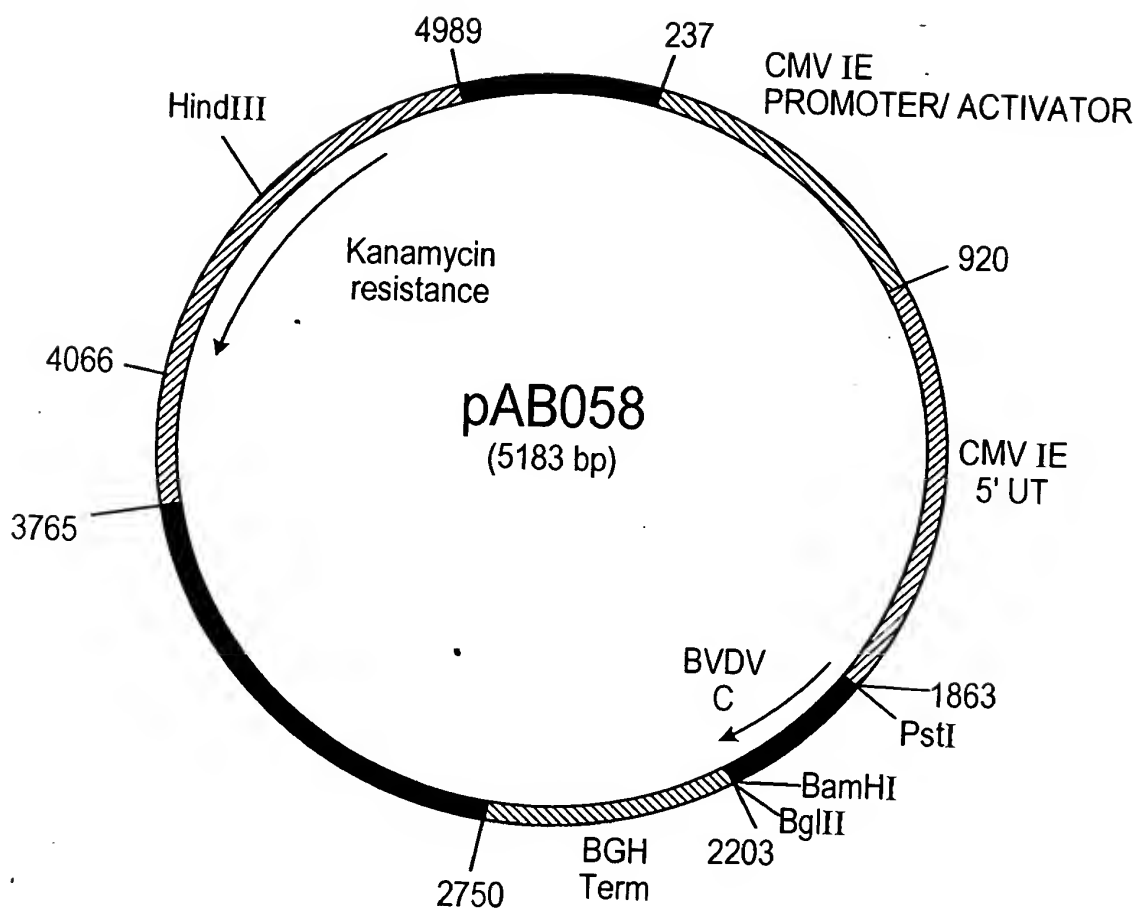
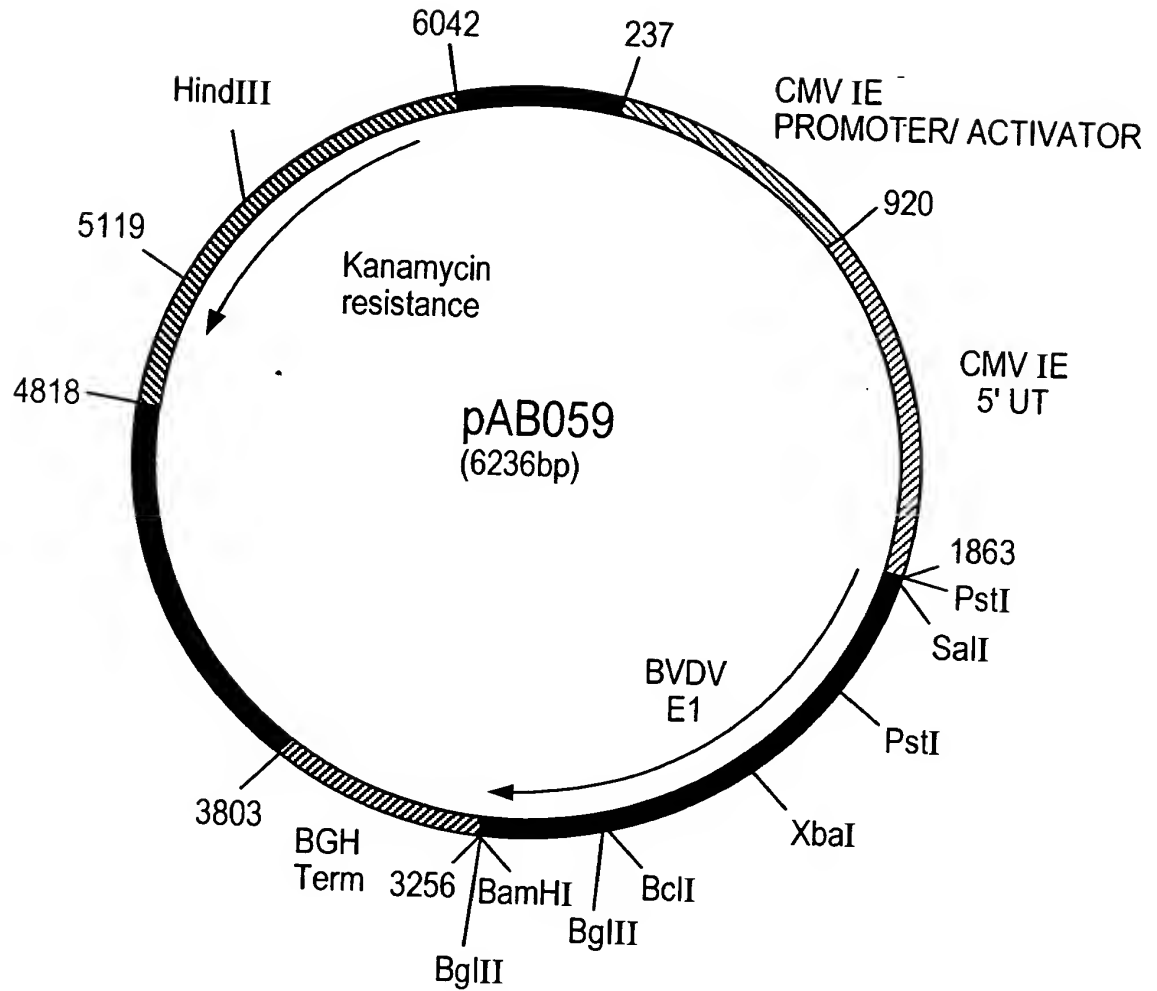
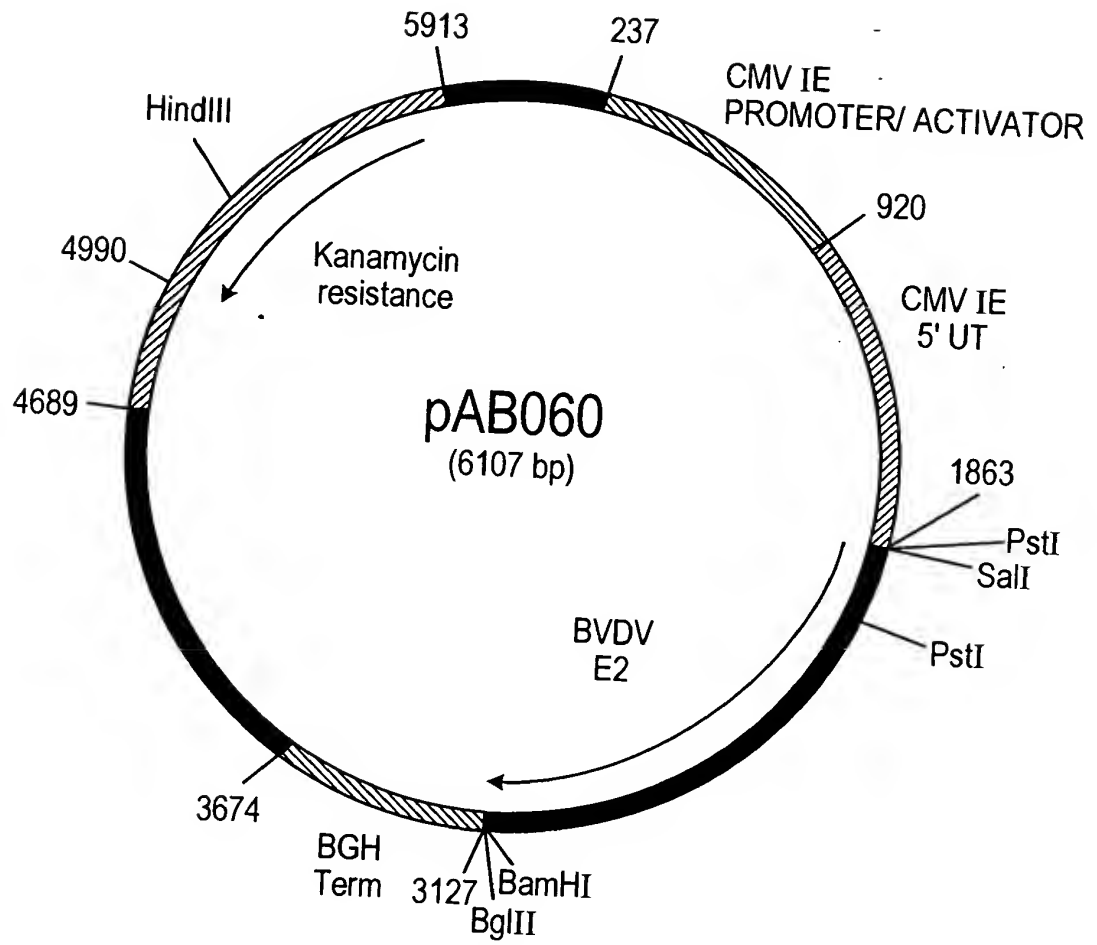


FIG. 7

20020-0155007

**FIG. 8**

1005519.022809

**FIG. 9**

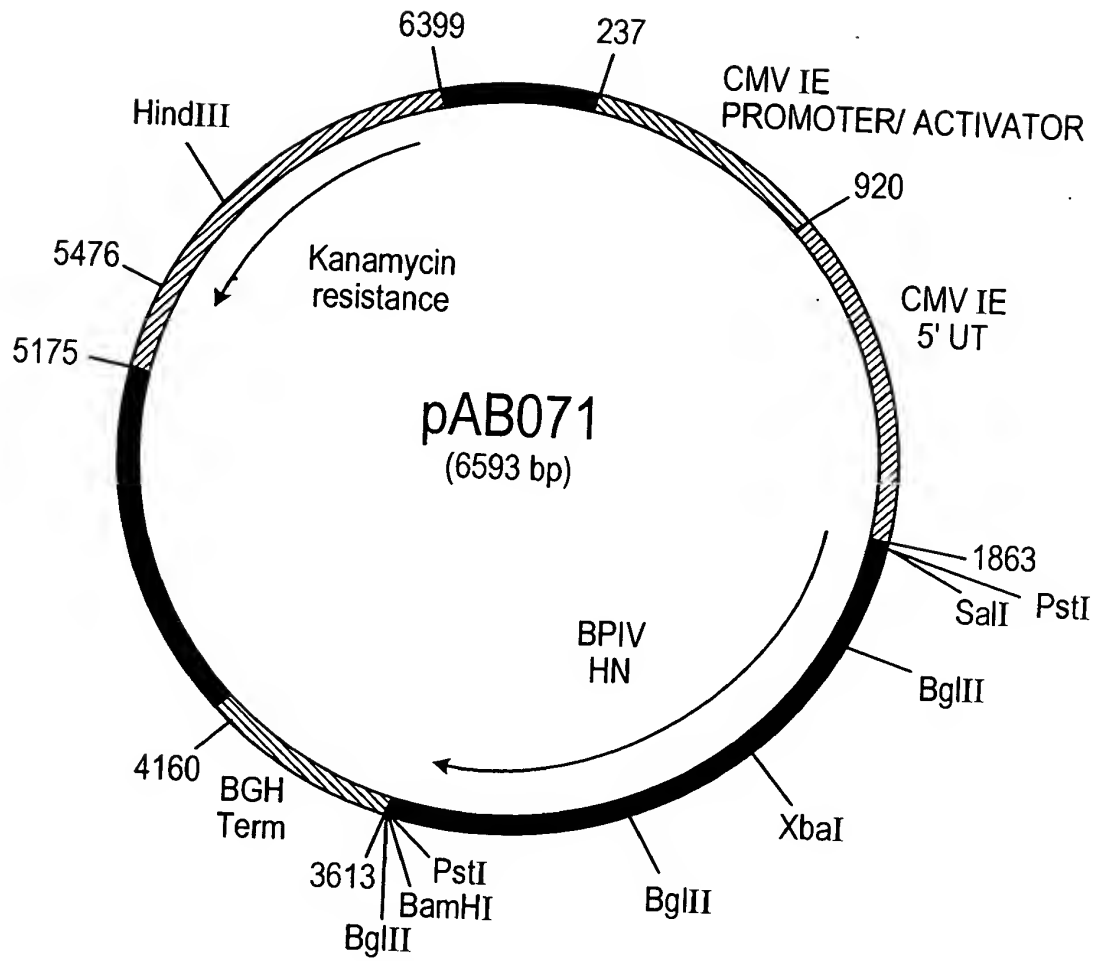


FIG. 10

208220-6T5300T

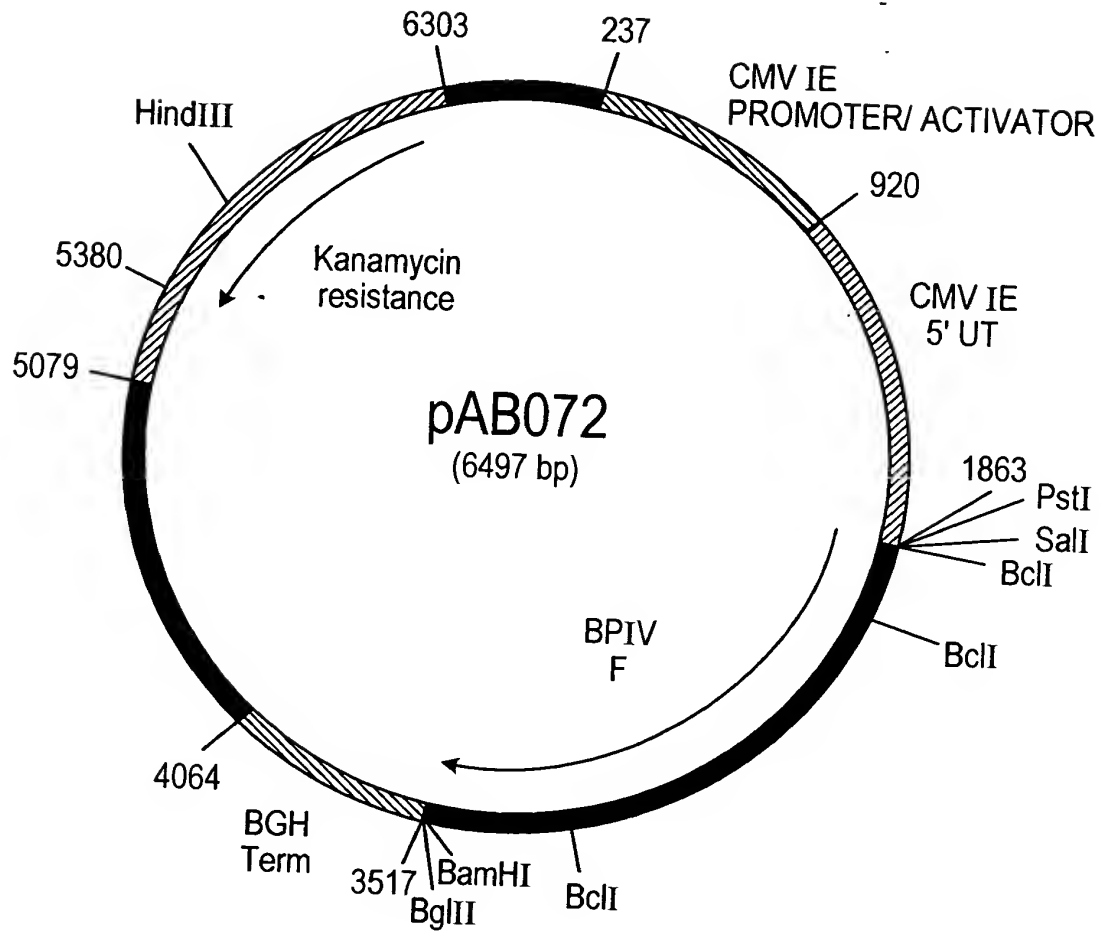


FIG. 11